

WHAT IS CLAIMED IS:

1. A digital videodisc player that reads data from predetermined plural kinds of recording mediums comprising:

an optical pick-up that irradiates the recording medium with laser beams and detects the reflected light to convert thereof into an electric signal;

signal processing means that applies the predetermined processing to the electric signal and converts the electric signal into a video and/or audio signal;

servo control means that controls the positional relation between the recording medium and said optical pick-up according to the kind of the recording medium; and

judgment means that specifies the kind of the recording medium by, when the recording medium is mounted, detecting the number of recording surfaces and a reflection factor from the output of said optical pick-up to presume the kind of the recording medium, setting a parameter of said servo control means to a parameter of the presumed kind of recording medium to try reading from the recording medium, specifying the kind of the recording medium in case that the data is readable, and setting a parameter of said servo control means in sequence to parameters of other kinds of recording mediums to try reading for each setting in case that the data is not readable.

2. The digital videodisc player according to Claim 1, wherein
the predetermined plural kinds of recording mediums are
selected from a group of a digital videodisc having a
single-layered recording surface, a digital videodisc having
5 a two-layered recording surface, and a compact disc.

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3. A digital videodisc player that reads data from predetermined plural kinds of recording mediums comprising:

an optical pick-up that irradiates the recording medium with laser beams and detects the reflected light to convert
5 thereof into an electric signal;

a signal processor that applies the predetermined processing to the electric signal and converts the electric signal into a video and/or audio signal;

a servo controller that controls the positional relation
10 between the recording medium and said optical pick-up according to the kind of the recording medium; and

a judgment section that specifies the kind of the recording medium by, when the recording medium is mounted, detecting the number of recording surfaces and a reflection factor from the
15 output of said optical pick-up to presume the kind of the recording medium, setting a parameter of said servo controller to a parameter of the presumed kind of recording medium to try reading from the recording medium, specifying the kind of the recording medium in case that the data is readable, and setting
20 a parameter of said servo controller in sequence to parameters of other kinds of recording mediums to try reading for each setting in case that the data is not readable.

4. The digital videodisc player according to Claim 3, wherein
the predetermined plural kinds of recording mediums are
selected from a group of a digital videodisc having a
single-layered recording surface, a digital videodisc having
5 a two-layered recording surface, and a compact disc.